



Tessellation 25 (F)

Suite: Tessellation Party!

by Arya Akhavan (September 2013)

Angles for R.I. = 1.540

45 + 8 girdles = 53 facets

4-fold radial symmetry

96 index

L/W = 1.000 T/W = 0.339 U/W = 0.339

P/W = 0.471 C/W = 0.196

Vol./W³ = 0.225

PREFORM

X1	42.00°	21-45-69-93	Cut to centerpoint.
X2	40.82°	10-34-58-82	Meet at preform culet.
G1	90.00°	21-45-69-93	Set stone size.
G2	90.00°	10-34-58-82	Level girdle.

PAVILION

P1	43.61°	96-24-48-72	Overwrite preform culet.
P2	43.00°	07-31-55-79	Meet at culet.
P3	65.46°	21-45-69-93	Level girdle.
P4	60.40°	10-34-58-82	Level girdle.
P5	42.80°	01-25-49-73	Meet P1, P2, P3, P4

CROWN

C1	58.69°	03-27-51-75	Set girdle width.
C2	38.26°	14-38-62-86	Level girdle.
C3	31.02°	20-44-68-92	Meet G1, G2, C1, C2
C4	30.00°	09-33-57-81	Meet G1, G2, C1, C2
C5	26.08°	21-45-69-93	Meet C1, C3, C4; C2, C3, C4
C6	20.32°	16-40-64-88	Meet C2, C3, C4, C5
T	0.00°	Table	Meet C4, C5, C6

Wow, this was surprisingly hard to get to look good. This is an extension of my F series of tessellations, and it's one of the few that uses radial symmetry instead of mirror symmetry. The preform should be very helpful. Works in materials from quartz to rutile (RI = 1.54 - 2.62) with no changes, but I prefer it in standard purple amethyst.

Suggested size = 6-12 mm

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